

TRANSMITTAL LETTER In re Application of: Docket: 2003.795US Philip A. Ropp et al. **Group Art Unit:** Serial No.: 10/561,985 Examiner: Int'l Application No.: PCT/US2004/018992 Int'l Filing Date: June 15, 2004 CERTIFICATE OF MAILING I hereby certify that this correspondence is being For: REMOVAL OF LIPOPOLYSACCHARIDES deposited with the United States Postal Service FROM PROTEIN-LIPOPOLYSACCHARIDE as First-Class mail in an envelope addressed to: Commissioner for Patents, **COMPLEXES BY NONFLAMMABLE SOLVENTS:** P.O. Box 1450 Alexandria, VA 22313-1450 Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 Christina Cangelosi Sir: ☑Transmitted herewith find the document(s) related to this application. TRANSMITTAL LETTER IN DUPLICATE; INFORMATION DISCLOSURE STATEMENT; DOCUMENTS (19); CERTIFICATE OF MAILING; AND POST CARD.

☐ Applicant hereby petitions for an extension of time under 37 CFR 1.136 of:

☐ One Month (\$120.00)

☐ Two Months (\$450.00)

☐ Three Months (\$1020.00)

☐ Four Months (\$1590.00)

The total fee believed due is \$_0.00_. Please charge this amount and any other fees, which may be due (including filing fees under 37 CFR 1.16 and processing fees under 37 CFR 1.17) to Deposit Account No. 01-1350. If an extension of time is required but has not been requested above. Applicant hereby petitions for an extension of time sufficient for the attached document(s) to be timely. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

F. Aaron Dubberley

Attorney for Applicant(s)

Reg. No. 41,001

Akzo Nobel Inc. Intellectual Property Dept. 7 Livingstone Avenue Dobbs Ferry, NY 10522-3408 Tel No.: (973) 325-4542



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Philip A. Ropp et al.

Serial No.: 10/561,985

Int'l Application No.: PCT/US2004/018992

Int'l Filing Date: June 15, 2004

For: REMOVAL OF LIPOPOLYSACCHARIDES FROM PROTEIN-LIPOPOLYSACCHARIDE COMPLEXES BY NONFLAMMABLE SOLVENTS:

P.O. Box 1450 Alexandria, VA 22313-1450

Commissioner for Patents

Docket: 2003.795US

Group Art Unit:

Examiner:

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First-Class mail in an envelope addressed to:

Commissioner for Patents, P.O. Box 1450

Alexandria, VA 22313-1450

Christina Cangelosi

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the requirements of 37 CFR §1.56, applicants submit the documents attached hereto. Pursuant to the United States Patent and Trademark Office, OG Notice 05 August 2003, applicants have excluded copies of the four (4) U.S. patent documents. All documents are to be made of record in the above-identified case. A listing of said documents on form PTO-1449 is also attached.

The present Information Disclosure Statement is being filed within three months of entrance into the U.S. National stage; therefore, no filing fee is believed to be required. If a filing fee is required, the Commissioner is hereby authorized to charge applicants' deposit account 01-1350 for the full amount of said fee.

This statement is not intended to represent that no better art exists. Applicants reserve the right to contest the applicability of the documents attached hereto as prior art in the event that any information is discovered which demonstrates that said documents do not qualify as prior art.

Consideration of the present Information Disclosure Statement is respectfully requested. The claimed invention is, however, deemed to represent a patentable departure from the teachings of the prior art.

Respectfully submitted,

F. Aaron Dubberley Attorney for Applicant(s)

Reg. No. 41,001

Akzo Nobel Inc.
Intellectual Property Dept.
7 Livingstone Avenue
Dobbs Ferry, NY 10522-3408

Tel No.: (973) 325-4542

Serial No. Atty. Docket # INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) 2003.795 US 10/561,985 PTO-1449 (modified) **Applicant** Philip A. Ropp et al. .IAN 1 7 2006 Group Art Unit Int'l Filing Date June 15, 2004 U.S. PATENT DOCUMENTS Filing Issue Date Init Document No. Date Name Class Subclass 134 28 4,832,751 5/23/1989 Domelsmith et al. 424 92 2/3/1981 Ellwood et al. 4,248,862 435 101 5.045.456 9/3/1991 Rienstra et al. 530 344 6,265,542 B1 7/24/2001 Fahrner et al. FOREIGN PATENT DOCUMENTS **Translation** Publ. Country **Subclass** Document No. Date Class Ν A61K 39/02 EP 0 407 037 A1 1/9/1991 European WO 99/63076 12/9/1999 **PCT C12N** 15/10 WO 02/074791 A1 9/26/2002 PCT C07K 1/20 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) International Search Report, No.: PCT/US2004/018992, 28 December 2004 Franken et al., "Purification of His-Tagged Proteins by Immobilized Chelate Affinity Chrmatography: The Benefits from the Use of Organic Solvent," Protein Expression and Purification, vol. 18, pages 95-99 (2000) Petsch et al., "Endotoxin Removal From Protein Solutions," Journal of Biotechnology, vol. 76, no. 2-3, pages 97-119 (2000) Bischoff et al., "Purification and Biochemical Characterization of Recombinant X-1 Antitrypsin Variants Expressed in Escherichia coli," Biochemistry, American Chemical Society, vol. 30, no. 14, pages 3464-3472 (April 9, 1991) Gagnon et al., "Method for obtaining unique selectivities in ion-exchange chromatography by addition of organic polymers to the mobile phase," Journal of Chromatography A, vol. 743, pages 51-55 (1996) Heine et al., "The Biology Of Endotoxin", Mol. Biotechnol. 19, pages 279-296 (2001) Berger et al., "Evidence for endotoxin binding capacity of human Gc-globulin and transferring," Clin. Chim. Acta 163, pages pages 289-299 (1987) Fahrner et al., "Non-flammable preparative reversed-phase liquid chromatography of recombinant human insulin-like growth factor-I", Journal Chromatogr. A 830, pages 127-134 (1999) Fiske et al., "Method for reducing endotoxin in Moraxella catarrhalis UspA2 protein preparations," Journal Chromatogr. B 753, pages 269-278 (2001) Mielniczuk et al., "Gas chromatography-mass spectrometry of lipopolysaccharide 3-hydroxy fatty acids: comparison of pentafluorobenzoyl and trimethylsilyl methyl ester derivatives," Journal Chromatogr. 623, pages 115-122 (1992)

DATE CONSIDERED

EXAMINER

			Atty. Docket #		Serial No.	Serial No.		
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				Int'l Filing Date Group Art Unit June 15, 2004				
	PATENT DOCUM	ENTS						
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